I 49.89:82-47-1/map C17

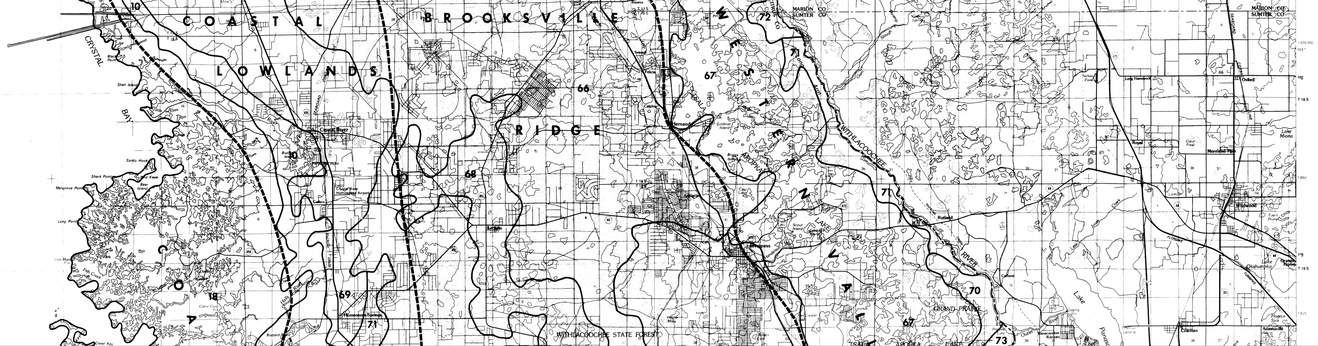
MMS 85-0011
FWS/OBS-82/47.1

MAP C17

Inverness

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS



ORIGINAL

Scale 1:100 000

TOPICAL MAPS IN THIS ATLAS:

A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

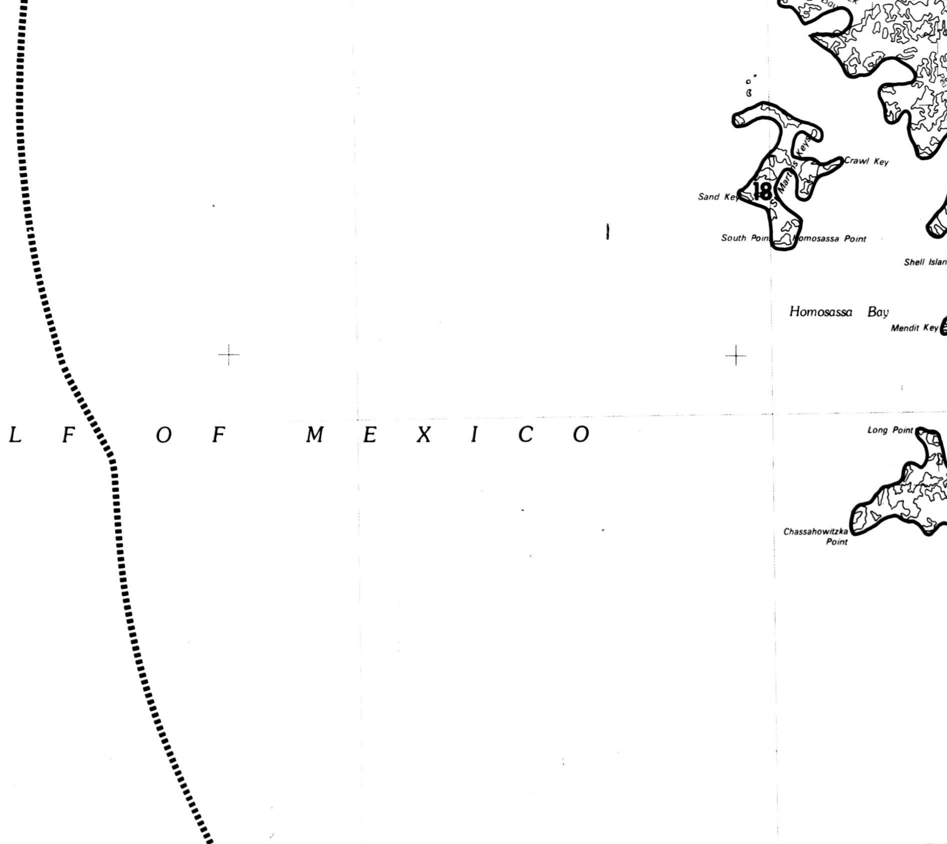
Produced by U.S. Fish and Wildlife Service and Minerals Management Service

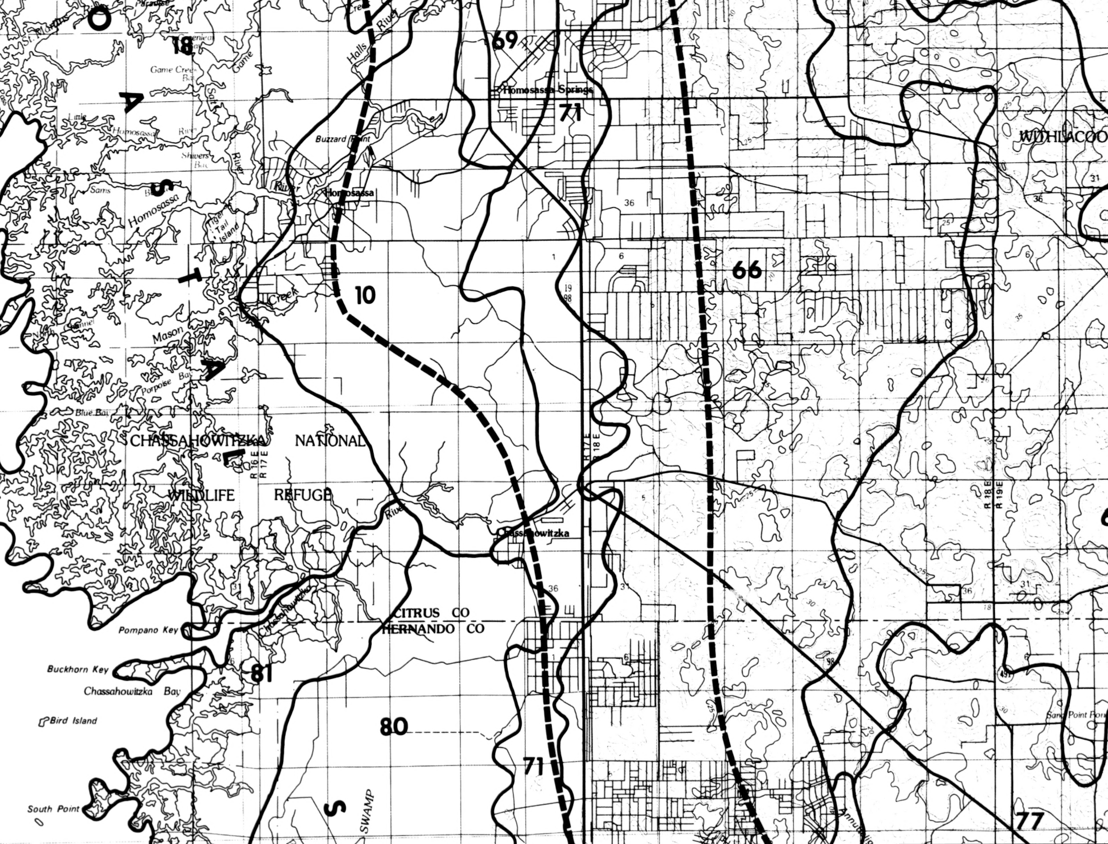
Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate

45

3'8

G U


Crawl Key
St. Martins Keys
Sand Key
18
South Point
Homosassa Point
Shell Islan
Homosassa Bay
Mendit Key
LF OF MEXICO
Long Point
Chassahowitzka Point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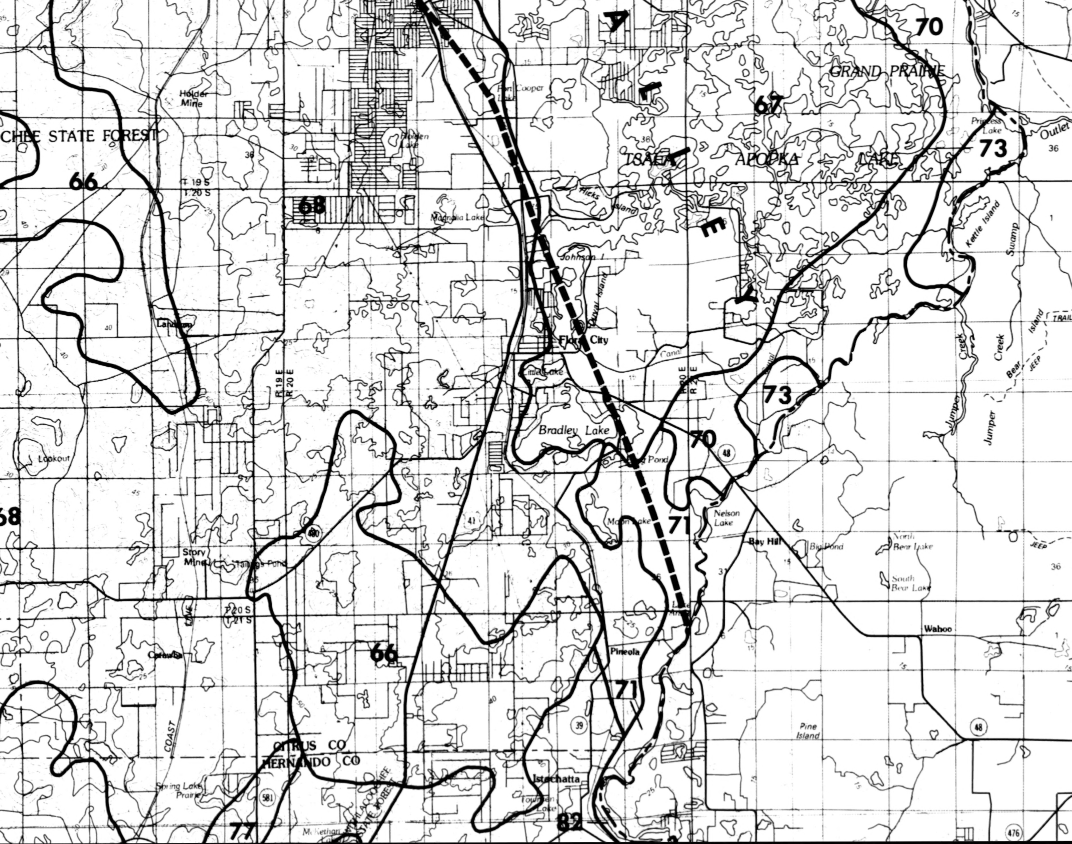
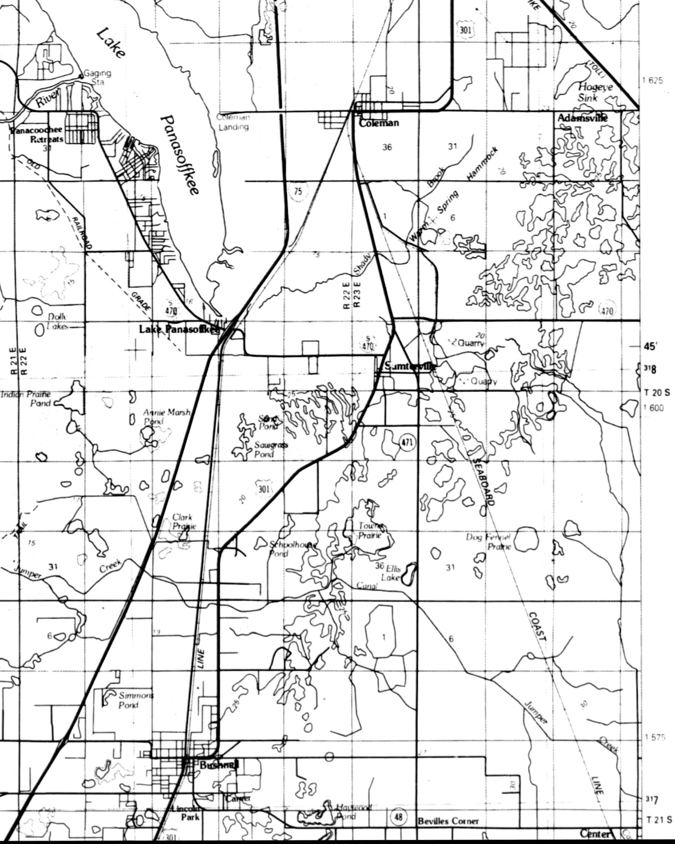
18
St. Martins River
Paradise
Greenleaf Bay
Game Creek Bay
Salt River
Game
Little Homosassa River
Shivers Bay
River
Sams Bayou
Homosassa
Tiger Tail Island
Halls River
Creek
69
Homosassa Springs
71
Buzzard Point
River
Homosassa
WITHLACOO
31
36
25
1
6
19
98
66
20
35
10
Creek
North Channel
Mason
Porpoise Bay
Blue Bay
CHASSAHOWITZKA NATIONAL WILDLIFE REFUGE
R16E
R17E
R17E
R18E
R18E
R19E
River
Chassahowitzka
5
26
36
31
18
30
CITRUS CO
HERNANDO CO
Chassahowitzka
Pompano Key
Buckhorn Key
Chassahowitzka Bay
Bird Island
South Point
81
80
71
SWAMP
98
491
Sand Point
77


70
GRAND PRAIRIE
67
Princess Lake
Outlet
73
36
A
L
L
E
Y
TSALA APOPKA LAKE
Hicks Island
Fort Cooper Lake
Holder Mine
Holden Lake
CHEE STATE FOREST
66
T 19 S
T 20 S
68
Magnolia Lake
Johnson L
Duval Island
Floral City
Canal
Little Lake
R 19 E
R 20 E
Kettle Island
Swamp
73
Bradley Lake
70
48
Pond
Jumper Creek
Creek
Bear Island
JEEP TRAIL
Lookout
Landrum
68
Nelson Lake
Moon Lake
71
Bay Hill
Big Pond
North Bear Lake
South Bear Lake
JEEP
36
480
41
Story Mine
Tailings Pond
Lake Ann
T 20 S
T 21 S
Waboo
Catawba
66
Pineola
COAST LINE
71
39
Pine Island
48
CITRUS CO
HERNANDO CO
Spring Lake Prairie
581
WITHLACOOCHEE STATE FOREST
Istachatta
Townsen Lake
McKethan
77
82
476


Lake Panasoffkee
Gaging Sta
River
Panacoochee Retreats
Coleman Landing
Coleman
Adamsville
Hogeye Sink
TOLL
301
75
470
471
48
Brook Hammock
Warm Spring
Shady
R 22 E
R 23 E
R 21 E
R 22 E
Dolk Lakes
Lake Panasoffkee
Quarry
Sumterville
Indian Prairie Pond
Annie Marsh Pond
Sand Pond
Sawgrass Pond
SEABOARD
COAST
LINE
Clark Prairie
Towne Prairie
Schoolhouse Pond
Dog Fennel Prairie
Jumper Creek
Ellis Lake
Canal
Simmons Pond
Bushnell
Carter
Lincoln Park
Haywood Pond
Bevilles Corner
Center
OLD RAILROAD GRADE
TRAIL
1 625
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1984

Da

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

MAJOR SURFACE LANDFORMS

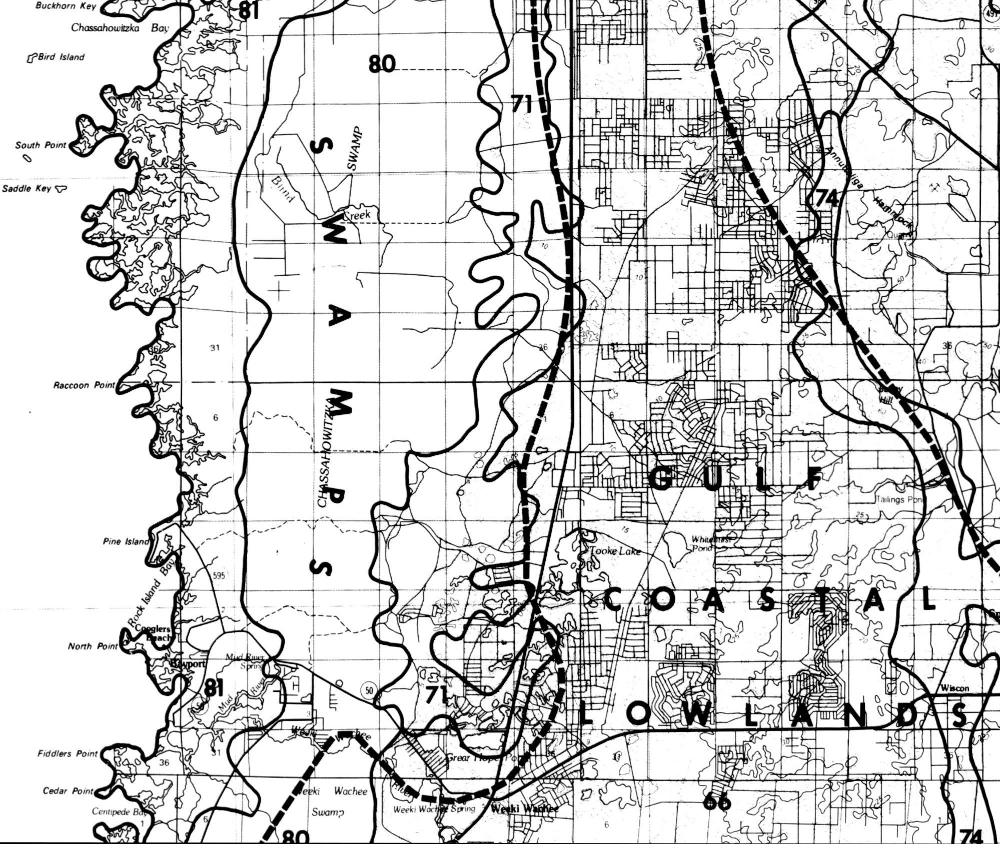
Western Highlands
Escambia Valley
Gulf Coastal Lowlands
Gulf Barrier Chain
Marianna Lowlands
New Hope Ridge
Greenhead Slope
Fountain Slope
Grand Ridge
Northern Highlands
Coastal Swamps
Brooksville Ridge
Western Valley

SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association

317

316


Buckhorn Key
Chassahowitzka Bay
Bird Island
South Point
Saddle Key
Raccoon Point
Pine Island
Rock Island Bay
Cooglers Beach
North Point
Bayport
Mud River Spring
Mud River
Fiddlers Point
Cedar Point
Centipede Bay
81
80
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SWAMPS
SWAMP
Blind Creek
CHASSAHOWITZKA
GULF COASTAL LOWLANDS
Annutteliga Hammock
Quarry
Tooke Lake
Whitehurst Pond
Tailings Pond
Wiscon
Weeki Wachee
Weeki Wachee Swamp
Weeki Wachee Spring
Weeki Wachee
Grear Hope Pond
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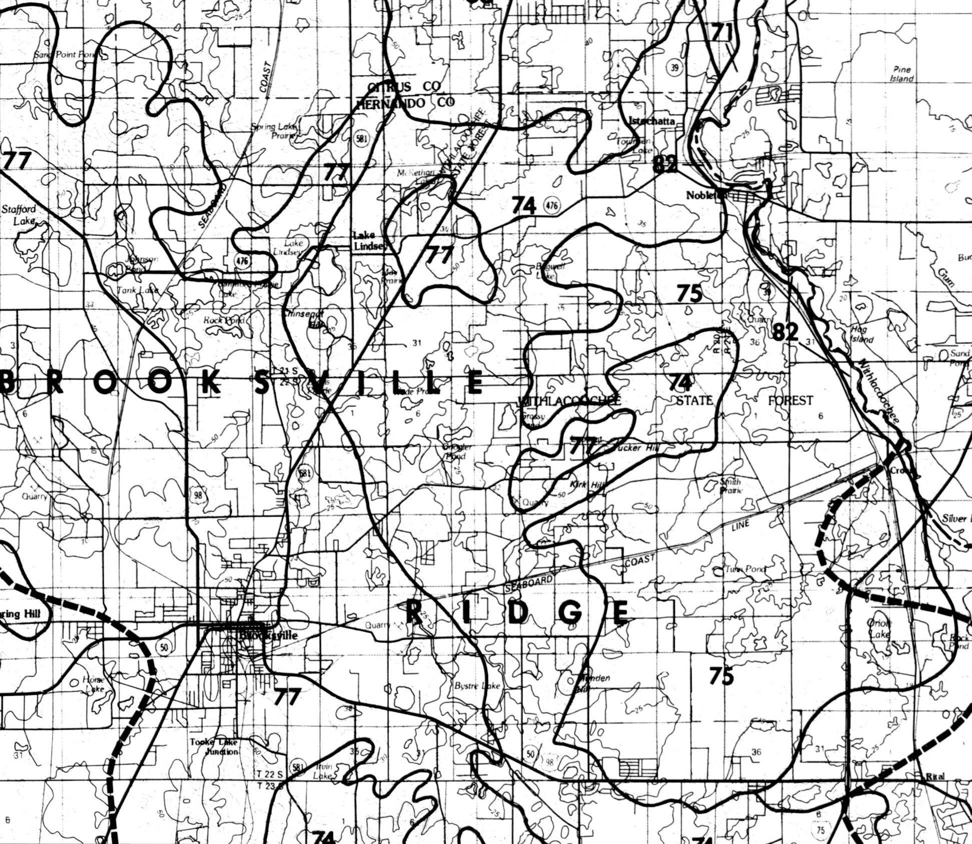
Sand Point Pond
COAST
CITRUS CO
HERNANDO CO
Spring Lake Prairie
581
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Stafford Lake
SEABOARD
McKethan Lake
WITHLACOOCHEE STATE FOREST
74
476
Istachatta
Townsen Lake
82
Nobleton
39
71
Pine Island
Lake Lindsey
Lake Lindsey
Johnson Pond
Tank Lake
Rock Pond
Chinsegut Hill
May Prairie
Bagwell Lake
75
Quarry
82
Hog Island
Gum
Sand Pond
B R O O K S V I L L E
T 23 S
22 S
Wade Prairie
WITHLACOOCHEE
STATE
FOREST
Withlacoochee
Grassy Pond
Tucker Hill
Kirk Hill
Quarry
Smith Prairie
Quarry
98
Silver
LINE
COAST
SEABOARD
Twin Pond
Spring Hill
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Brooksville
Quarry
R I D G E
Bystre Lake
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Rock Pond
Horse Lake
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Tooke Lake Junction
Irvin Lake
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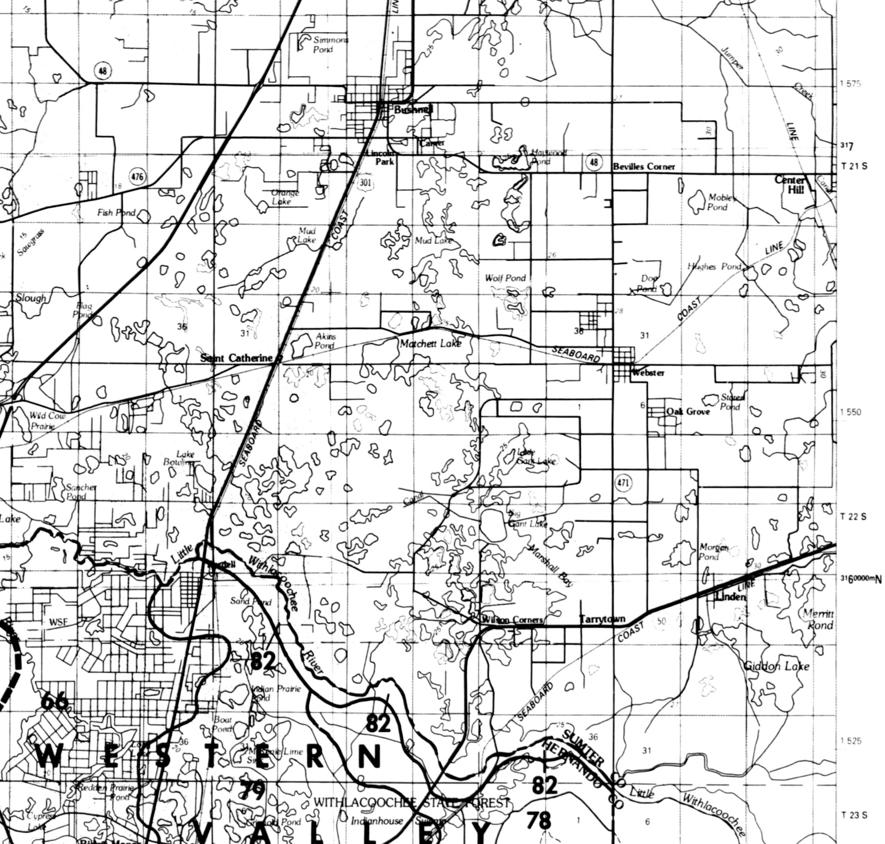
Simmons Pond
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Bushnell
Center
Lincoln Park
Haywood Pond
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Bevilles Corner
Center Hill
Jumper Creek
LINE
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Orange Lake
301
Fish Pond
Saugrass
Mobley Pond
Mud Lake
Mud Lake
COAST
Wolf Pond
Hughes Pond
Doe Pond
LINE
COAST
Slough
Flag Pond
Akins Pond
Matchett Lake
SEABOARD
Saint Catherine
Webster
Wild Cow Prairie
Oak Grove
Slaten Pond
SEABOARD
Lake Bowling
Little Gant Lake
471
Sancher Pond
Canal
Lake
Big Gant Lake
Marshall Bay
Morgan Pond
Little Withlacoochee River
Sand Pond
Linden
LINE
Merritt Pond
WSF
Wilson Corners
Tarrytown
COAST
82
Giddon Lake
66
Indian Prairie Pond
SEABOARD
82
Boat Pond
Lime Sink
SUMTER CO
HERNANDO CO
WESTERN VALLEY
79
82
Redden Prairie Pond
WITHLACOOCHEE STATE FOREST
Little Withlacoochee
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Cypress Lake
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Tifton-Carnegie-Faceville Association
Norfolk-Ruston-Savannah Association
Tifton-Irvington-Lynchburg Association
Klej-Leon Association
Huckabee-Kalmia-Izagota Association
Coastal Dune Land and Beach-Tidal Marsh Association
Plummer-Rutlege-Alluvial Land-Fresh Water
Swamp-Dorovan-Pamlico Association
Lakeland-Paola-Kureb-St. Lucie-Rimini Association
Lakeland-Troup Association
Troup-Orangeburg Association
Dothan-Orangeburg Association
Red Bay-Lucy Association
Chipley-Scranton Association
Johns-Leaf Association
Salt Water Marsh-Bayvi-Dirego Association
Fuquay-Lucy-Troup Association
Dothan-Orangeburg-Tifton Association
Lakeland-Faceville Association
Chipley-Albany-Leon Association
Ardilla-Leefield-Stilson Association
Tifton-Faceville-Greenville Association
Norfolk-Ruston-Goldsboro Association
Tifton-Faceville-Marlboro Association
Lakeland-Cuthbert-Shubuta Association
Blanton-Klej-Plummer Association
Goldsboro-Lynchburg-Rains Association
Kureb-Resota-Mandarin Association
Lakeland-Foxworth-Centenary Association
Leefield-Albany-Stilson Association
Hurricane-Chipley-Albany Association
Pottsburg-Leon-Rutlege Association
Plummer-Pelham Association
Rutlege-Allanton-Pickney Association
Chipley-Albany-Stilson Association
Leon-Albany-Plummer-Chipley-Osier Association
Dunbar-Bladen Association
Dothan-Stilson-Lucy Association
Ardilla-Leefield-Pansey Association
Chipley-Albany-Blanton Association
Leon-Felda-Matmon Association
Dothan-Orangeburg-Red Bay Association
Alpin-Blanton-Eustis Association
Orangeburg-Lucy-Dothan Association
Chipley-Albany-Plummer Association
Leon-Mascotte-Rutlege Association
Broward, var.-Matmon-Osier Association
Manatee, var.-Felda, Var.-Copeland, Var. Association
Fresh Water Swamp, Shallow to Limestone Association
Salt Water Marsh and Swamp-Coastal Dunes Association
Alpin-Blanton Association
Chipley-Blanton-Swamp Association
Adamsville, var.-Chiefland-Blanton Association
Candler-Apopka Association
Jonesville-Chiefland-Archer Association
Arredondo-Gainesville Association
Hernando-Archer-Chiefland Association
Sparr-Lochloosa-Tavares Association
Adamsville-Osier Association
Bushnell-Wabasso-Felda Association
Blichton-Flemington-Kanapaha Association
Leon-Mascotte-Surrency Association

28°30'
83°00'
31

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE
SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL CO
TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEME
PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC,
EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG L
WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECO
THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCA
OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF,
JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO,
OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEM
OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PR
JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERN
THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAM
AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURC
INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE M
CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND
FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS F
MEASUREMENTS OF DISTANCES OR AREAS.

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
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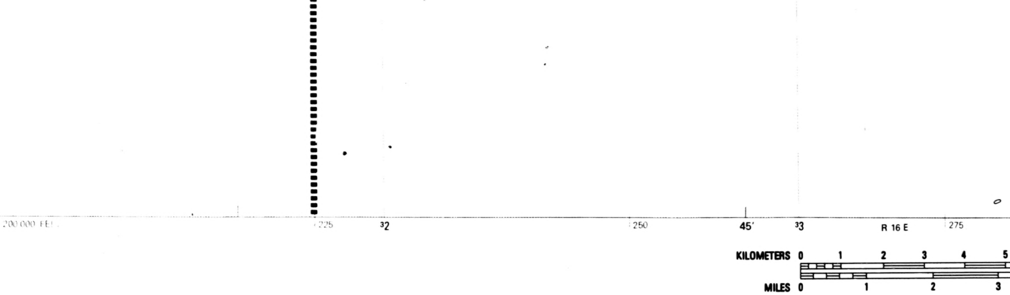
200 000 FEE
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KILOMETERS 0 1 2 3 4 5
MILES 0 1 2 3

U.S. FISH AND WILDLIFE
OASTAL ECOSYSTEMS
NT SERVICE FOR COASTAL
TO DETERMINE AND
LAND USES, FISH AND
LOGICAL DIVERSITY.
MBIA, SANTA ROSA,
, FRANKLIN, WAKULLA,
AND EXTENDS
PT, IN THE DESIGN
ROPRIETARY
MENT TO ESTABLISI
MS OF GOVERNMENT

CE MATERIALS
IANY SOURCES
OTHER MAPPED
FOR PRECISE

PRIMARY SOURCES OF MAPPED INFORMATION:

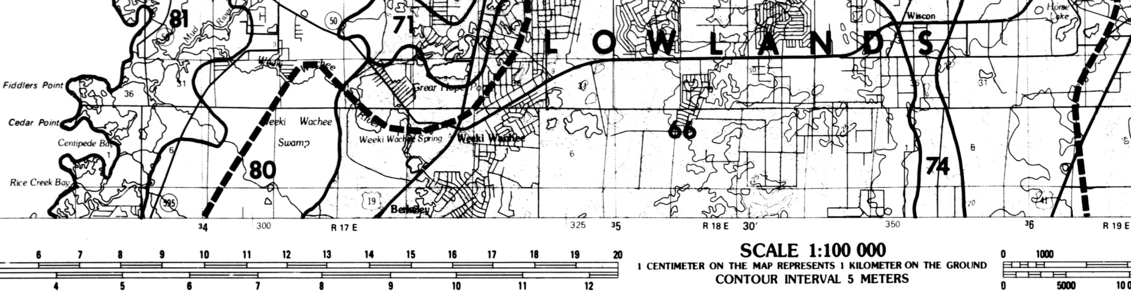
LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of State Planning, 1975.
General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980.
Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


LOWLANDS
81
71
80
66
74
Fiddlers Point
Cedar Point
Centipede Bay
Rice Creek Bay
Mud River
Weeki Wachee
Weeki Wachee Swamp
Weeki Wachee Spring
Weeki Wachee
Berkeley
Wiscon
Horse Lake
50
19
595
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R 18 E
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R 19 E
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SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 5 METERS

10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

18. Salt Water Marsh-Bayvi-Dirego Association: Nearly level, very poorly drained soils subject to frequent flooding by tidal waters.

66. Candler-Paola-Tavares Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy or sandy loam lamella and excessively and moderately well drained soils, sandy throughout.

67. Candler-Adamsville-Pompano Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy or sandy loam lamella and somewhat poorly and poorly drained soils, sandy throughout.

68. Arradondo-Kendrick Association: Nearly level to sloping, well drained soils with very thick sandy layers over loamy subsoil.

69. Broward-Boca Association: Nearly level, somewhat poorly drained sandy soils, underlain by limestone and poorly drained sandy soils with loamy subsoil underlain by limestone.

70. Panasoffkee-Bushnell Association: Nearly level, somewhat poorly drained sandy soils with clayey subsoils, underlain by limestone and somewhat poorly drained soils with thin sandy layers over clayey subsoil underlain by limestone.

71. Myakka-Basinger Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil and poorly drained soils, sandy throughout.

72. Meggett, var.-Pompano Association: Nearly level, poorly drained soils with thin loamy layers over clayey subsoil and poorly drained soils, sandy throughout.

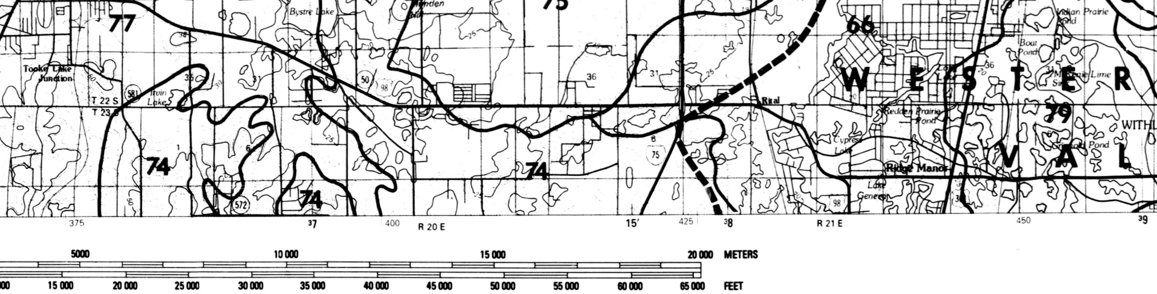
73. Terra Ceia-Placid Association: Nearly level, very poorly drained well decomposed organic soils 50 to 80 inches thick or more and very poorly drained soils, sandy throughout.

74. Arredondo-Sparr-Kendrick Association: Nearly level, to sloping, well drained and somewhat poorly drained sandy soils over loamy material.

75. Candler-Lake Association: Nearly level to sloping, excessively drained sandy soils with some lamallae of loamy sand and sandy loam present in the deeper horizons.

77. Nobleton-Blichton-Flemington Association: Nearly level to strongly sloping, poorly drained fine sands and sandy loams overlying loamy and clayey material.

78. EauGallie-Wabasso-Basinger Association: Nearly level, poorly drained sandy soils which are either sandy throughout or overlie loamy material.


77
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Bystre Lake
Tooke Lake Junction
Irvin Lake
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Cypress Lake
Ridge Manor
Lake Geneva
Indian Prairie Pond
Boat Pond
McKenzie Lime Sink
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FEET

79. **Paisley-Floridana-Wabasso Association:** Nearly level, poorly drained sandy soils overlying a clayey subsoil or loamy material.

80. **Okeelanta-Aripeka-Terra Ceia Association:** Nearly level, very poorly drained organic soils overlying sandy material or loamy soils overlying limestone.

81. **Homosassa-Weekiwachee-Lacoochee Association:** Nearly level, very poorly drained organic and mineral soils, and poorly drained, thin, sandy soils overlying limestone which are subject to frequent tidal flooding.

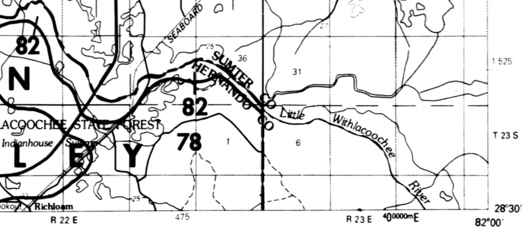
82. **Floridana-Basinger Association:** Nearly level, poorly drained sandy soils which are sandy throughout or overlie loamy material.

E=__ft/yr ⊢------⊣	BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
A=__ft/yr ⊢——⊣	BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
■	GULF BARRIER ISLAND
Ⓓ	ACTIVE DUNE AREA

U —— D	NORMAL FAULT (Showing relative vertical move U, up, and D, down)
U —-— D	SUB-SURFACE NORMAL FAULT (Showing relative vertical move U, up, and D, down)

STUDY AREA BOUNDARY

▮▮▮▮▮▮▮▮▮▮▮▮	Offshore
—— - —— -	Inland (County)
—— - - ——	Inland (State)



SEABOARD
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SUMTER
HERNANDO CO
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Little
Withlacoochee
River
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LACOOCHEE STATE FOREST
Indianhouse Swamp
L E Y
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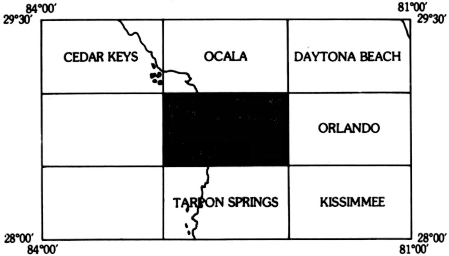

84°00′
81°00′
29°30′
29°30′
CEDAR KEYS
OCALA
DAYTONA BEACH
ORLANDO
TARPON SPRINGS
KISSIMMEE
28°00′
84°00′
28°00′
81°00′

53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association
65. Lynne-Pomona-Pompano Association
66. Candler-Paola-Tavares Association
67. Candler-Adamsville-Pompano Association
68. Arredondo-Kendrick Association
69. Broward-Boca Association
70. Panasoffkee-Bushnell Association
71. Myakka-Basinger Association
72. Meggett, var.-Pompano Association
73. Terra Ceia-Placid Association
74. Arredondo-Sparr-Kendrick Association
75. Candler-Lake Association
76. Masaryk Association
77. Nobleton-Blichton-Flemington Association
78. EauGallie-Wabasso-Basinger Association
79. Paisley-Floridana-Wabasso Association
80. Okeelanta-Aripeka-Terra Ceia Association
81. Homosassa-Weekiwachee-Lacoochee Association
82. Floridana-Basinger Association
83. Salt Water Marsh and Swamp Association
84. Fresh Water Swamp and Marsh Association
85. Blichton-Lochloosa-Kendrick Association
86. Paisley-Bushnell Association
87. Myakka-Pomello Association

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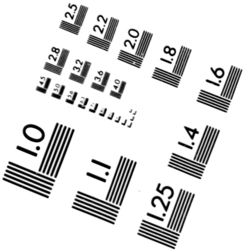
MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)


2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
5.6
1.0
1.1
1.4
1.25